

(i) Printed Pages : 3

Roll No. ....

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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Bachelor of Computer Applications 3<sup>rd</sup> Semester  
(2123)

**INFORMATION SYSTEM DESIGN AND IMPLEMENTATION**

**Paper : BCA-16-303**

**Time Allowed : Three Hours]**

**[Maximum Marks : 65**

**Note :—** Attempt **ONE** question from each unit and compulsory  
Question No. 9.

**UNIT—I**

1. (a) Draw difference among physical, open and closed systems  
in detail. 7
- (b) Which are the basic skills a system analyst should possess ? 6
2. (a) How are the various phases implemented for well-developed  
software ? 7
- (b) Which are the various boundaries and interfaces for Information  
System Environment ? 6



## UNIT—II

3. (a) How is system planning carried-out along with its initial investigation ? 7
- (b) How can one perform structured analysis DFDs and Data dictionary ? Explain its Pros and Cons also. 6
4. (a) How are Project Initiation, Fact-finding and Fact analysis carried-out ? Explain. 7
- (b) Explain Decision Trees and Decision Tables along with their Pros and Cons. 6

## UNIT—III

5. (a) How is feasibility study carried-out to hand-over the best performance ? Explain. 7
- (b) Explain various phases of system design. 6
6. (a) How do you judge system performance by defining its various constraints and feasibility of the system ? 7
- (b) How is System Testing carried-out to deliver best quality ? 6

## UNIT—IV

7. (a) How can you plan for the best implementation of a software ? 7
- (b) Which are the various criteria for system selection ? Also explain its evaluation process. 6

8. (a) Define software maintenance. Explain its primary activities in detail. 7
- (b) Explain various types of software along with vendor selection and post-installation review. 6

### COMPULSORY

9. Explain :
- (a) User Training 3
- (b) Maintenance Cost 2
- (c) Trends in Testing 2
- (d) Logical Design 2
- (e) Structured English 2
- (f) Man-made information system. 2